

Author Index of Volume B11

- Alava-Moreno, F., 413
 Alegret, S., 455
 Alonso-Chamarro, J., 455
 Anders, K.-D., 395
 Anheier, N. C., 447
 Archenault, M., 375
 Astles, J. R., 73
 Attridge, J. W., 235
- Bacci, M., 347
 Bakker, E., 1, 263
 Baldini, F., 347, 353
 Baron, M. G., 195
 Becker, A., 103
 Benes, R., 425
 Blanc, D., 213
 Blum, L. J., 57
 Bracci, S., 353
 Brandenburg, A., 361
 Brecht, A., 21
 Brennan, J. D., 109
 Briggs, R., 431
 Brown, R. S., 109
 Bühlmann, P., 1
 Busch, M., 407
 Buss, R. J., 161
 Butler, M. A., 161
- Cass, A. E. G., 547
 Chikamori, S., 441
 Christison, G. B., 213
 Clerc, D., 461
 Coulet, P. R., 57
 Culshaw, B., 521
 Cushley, W., 245
- Dakin, J. P., 9
 Dao, Nguyen Quy, 147
 Deacon, J. K., 235
 DeBono, R. F., 487
 DeGraff, B. A., 35
 De La Rue, R. M., 245
 Del Bianco, A., 347
 Della Manna, A., 109
 Demas, J. N., 35
 Díaz-García, M. E., 413
 Dienstbier, M., 511
 Draxler, S., 97, 129, 421
 Duréault, B., 467
 Duveneck, G. L., 301
- Ecke, W., 475
 Edelhäuser, R., 361
 Edwards, H. O., 9
 Ehrat, M., 301
 Elwing, H., 323, 543
- Flanagan, M. T., 537
 Francis, J. C., 81
- Freiner, D., 263
 Furlong, S. C., 307
- Gagnaire, H., 375
 Garces, I., 455
 Gauglitz, G., 21, 207, 383
 Gautier, S. M., 57
 Göbel, R., 553
 Göpel, W., 383
 Goure, J. P., 375
 Grattan, K. T. V., 431
 Griffin, J. W., 447
 Gutberlet, F., 407
- Hamilton, I., 431
 Hartmann, P., 281
 Haubenreisser, W., 475
 Haug, J.-P., 1
 Haug, M., 383
 Heimlich, M., 487
 Helluy, A., 487
 Hinkov, I., 227
 Hinkov, V., 227
 Höbel, W., 407
 Hodgson, P., 213
 Holobar, A., 425
 Homola, J., 481
 Hutter, F., 361
- Imasaka, T., 341
 Ingenhoff, J., 207
- Jaffrezic-Renault, N., 375
 Jouan, M., 147
- Kallury, K. M. R., 109
 Karlsson, J. O. G., 323, 543
 Kawabata, Y., 341
 Kellner, R., 553
 Klainer, S. M., 81
 Klein, R., 221
 Klimant, I., 347
 Kopola, H., 121, 503
 Kraus, G., 21
 Krull, U. J., 109, 487
 Kunz, R. E., 167
 Kuratli, M., 1
 Kurochkin, I. N., 525
 Kuzmin, M., 201
- Lakowicz, J. R., 133
 Laybourn, P. J. R., 245
 Lehmann, H., 425, 475
 Leiner, M. J. P., 281, 421
 Lerchi, M., 1
 Lieberman, R. A., 43
 Liedberg, B., 63
 Ligler, F. S., 239
 Lippitsch, M. E., 97, 129, 421, 499
 López, R., 455
- Love, W. F., 307
 Lübbbers, D. W., 253
 Lukosz, W., 177, 461
 Lundström, I., 63, 323, 543
- MacCraith, B. D., 29
 MacKenzie, H. A., 213
 Magill, J. V., 245
 Mannhalter, C., 273
 Marszalec, E., 121, 503
 Mateo, J., 455
 Matsuura, Y., 441
 Michels, M. H., 467
 Miller, W. G., 73
 Mosharov, V., 201
 Motellier, S., 467
 Mouaziz, Z., 431
 Muhammad, F. A., 521
 Myllylä, R., 121, 503
- Nahm, W., 21
 Nakagawa, M., 441
 Narayanaswamy, R., 195
 Nilsson, Å., 323
 Norberg, T., 543
- Ödsman, S., 323, 543
 Ogert, R. A., 239
 Olah, J., 525
 O'Leary, P., 425
 Olsen, K. B., 447
 Orlov, A., 201
 Oroszlan, P., 301
 Ozawa, S., 1
- Papkovsky, D. B., 293, 525
 Pereiro-García, R., 413
 Pflanzl, I., 129
 Phonov, S., 201
 Pichery, T., 375
 Piunno, P. A., 109
 Polster, J., 407
- Radchenko, V., 201
 Raspor, P., 425
 Rehr, B., 395
 Reininger, F., 87
 Renschen, C. P., 515
 Robinson, G. A., 235
 Ronot, C., 375
 Rosatzin, T., 263
- Sadovskii, N., 201
 Sahm, H., 395
 Sandanayake, K. R. A. S., 331
 Sanz-Medel, A., 413
 Scheper, T., 395
 Schierbaum, K. D., 383
 Schmidt, H.-L., 407
- Schroeter, S., 475
 Schubert, F., 531
 Schwenk, M., 407
 Schwotzer, G., 475
 Shriver-Lake, L. C., 239
 Siegmund, H.-U., 103
 Simon, W., 1, 263
 Sladký, P., 511
 Sloper, A. N., 537
 Slovacek, R. E., 307
 Sohanpal, K., 547
 Spichiger, U. E., 1, 263
 Stamm, Ch., 177
 Steiner, G., 515
 Stenberg, E., 63
 Stewart, G., 521
 Stuart, A. D., 185
 Sundgren, H., 323
 Sutherland, I. O., 331
 Sveider, P., 543
 Svensson, S. P. S., 323, 543
 Swenson, F. J., 315
 Szmackinski, H., 133
- Taga, K., 553
 Thomas, J. R., 81
 Thordsen, O., 395
 Thorpe, S. C., 195
 Tomiyama, T., 441
 Toulhoat, P., 467
 Trettnak, W., 87, 425
 Troyanovsky, I., 201
- Ulmann, O., 511
 Utsunomiya, K., 441
- Vidal, M. M. B., 455
 Voges, E., 221
- Wada, T., 441
 Watsuji, T., 547
 Weger, S., 553
 Wehnert, G., 395
 Weigl, B. H., 425
 West, S., 1
 Whiteley, S. C., 235
 Widmer, H. M., 301
 Willsch, R., 475
 Wolfbeis, O. S., 87, 347, 425
 Wollschlager, A., 425
- Xiang, Z., 129
- Yamamoto, I., 441
 Yamamoto, T., 341
 Yamashita, N., 441
 Yamashita, Y., 441
- Zhou, L. Q., 547
 Zhou, Y., 245
 Zinterl, E., 87

Subject Index of Volume B11

- Acetylcholine esterase
 fiber-optic remote detection of pesticides and related inhibitors of enzyme, 87
- Adenosine diphosphate
 fiber-optic enzyme sensor for determination of, using internal analyte recycling, 531
- Aerospace research
 set of luminescence pressure sensors for, 201
- Alcohol
 determination of probable alcohol yield in musts by means of SPR optical sensor, 455
- Analyte detection
 laser photoacoustic sensor for, in aqueous systems, 213
- Ammonia
 integrated-optic, sensor, 221
- Atrazine
 fiber-optic, immunosensor, 301
- Bacteria
 development and evaluation of optical sensors for detection of, 315
- Biochemical sensor(s)
 based on interferometry at thin (multi-)layers, 21
 integrated optical output grating coupler as refractometer and, 461
- Biocompatibility
 of artificial surfaces such as cellulose and related materials, 323
- Biological applications
 of fiber-optic sensing; multiple uses of fiber-optic fluorimeter, 395
- Biomedical applications
 advances in colour measurement for, 121
- Bioreactors
 experimental results on optical pH measurement system for, 425
- Biosensing
 new way of, using fluorescence energy transfer and Langmuir-Blodgett films, 103
 principles of, with extended coupling matrix and surface plasmon resonance, 63
- Biosensor(s)
 fibre-optic lifetime-based enzyme, 525
 optical, based on fish pigment cells, 543
- Calcium
 fluorescence lifetime-based sensing of pH, Ca^{2+} , K^+ and glucose, 133
- Cellulose
 biocompatibility of artificial surfaces such as, and related materials, 273
- Chemical *in vivo* monitoring
 by optical sensors in medicine, 253
- Chemical sensing
 phase-sensitive fibre-optic monoptodes for, 475
 recent progress in intrinsic fiber-optic, 43
- Chemical sensor(s)
 applications of ag island films for preparation of fluorescently based, 487
 based on interferometry at thin (multi-)layers, 21
 based on non-linear optics, 129
 based upon polysiloxanes; comparison between optical, quartz microbalance, calorimetric, and capacitance sensors, 383
 fiber-optic, offer realistic solution to environmental monitoring needs, 81
 integrated optical difference interferometer as refractometer and, 177
 integrated optical output grating coupler as refractometer and, 461
 kinetics of micromirror, 161
- Chemical vapours
 detection of, with specifically coated optical-fibre sensor, 375
- Chemo-optical sensor
 model of, based on plasmon excitation in thin Ag films, 481
- Chlorine
 design and implementation of fibre-optic-based residual Cl monitor, 431
 fiber-optic spectrochemical emissions sensor; detector for volatile chlorinated compounds, 447
- Chromionophore
 comparative study of two different approaches for active optical sensing of K with, 413
- Clinical chemistry
 optodes in; potential and limitations, 263
- Colorimetric activity
 assays of enzyme-modified MIR fibers, 553
- Colour measurement
 advances in, for biomedical applications, 121
- Correlation spectroscopy
 gas sensors using, compatible with fibre-optic operation, 9
- Coupling matrix
 principles of biosensing with extended, and surface plasmon resonance, 63
- Cytotoxicity
 fish-scale photometry and *in vitro*, 323
- Environmental monitoring
 fiber-optic chemical sensors offer realistic solution to, needs, 81
- Enzyme biosensor
 fiber-optic lifetime-based, 525
- Enzyme-modified MIR fibers
 colorimetric activity assays of, 553
- Enzyme sensor
 fiber-optic, for determination of adenosine diphosphate using internal analyte recycling, 531
- Evanescent-field absorption
 determination of, using optics elements by means of totally reflected Gaussian beam, 515
- Evanescent fluorescence immunoassays
 performed with disposable ion-exchanged patterned waveguide, 245
- Evanescent-wave gas sensors
 sensitivity improvement for, 521

- Evanescent-wave sensor(s)
 - enhanced, based on sol-gel-derived porous glass coatings, 29
 - feasibility study of plastic, 307
- Fermentation process control
 - application of optodes in FIA-based, using software package FIACRE, 407
- Fluorescence
 - lifetime-based sensing of pH, Ca^{2+} , K^{+} and glucose, 133
- Fluorescence anisotropy
 - optical sensors based on, 499
- Fluorescence decay time
 - optical pH sensors using, 421
- Fluorescence energy transfer
 - new way of biosensing using, and Langmuir-Blodgett films, 103
- Fluorescence sensors
 - reagentless, based upon specific binding proteins, 547
- Fluorescence spectroscopy
 - covalent immobilization of amphiphilic monolayers containing urease onto optical fibers for fluorimetric detection of urea, 109
- Fluorescent capillary fill device, 235
- Fluorimeter
 - biological applications of fiber-optic sensing; multiple uses of fiber-optic, 395
- Fiber-optic Atrazine immunosensor, 301
- Fiber-optic chemical sensing
 - recent progress in intrinsic, 43
- Fiber-optic chemical sensors
 - offer realistic solution to environmental monitoring needs, 81
- Fiber-optic evanescent-wave immunosensor
 - for large molecules, 239
- Fiber-optic immunosensor
 - reversible, measurements, 73
- Fiber-optic monitor
 - design and implementation of fibre-optic-based residual Cl monitor, 431
- Fiber-optic monoptodes
 - phase-sensitive, for chemical sensing, 475
- Fiber-optic operation
 - gas sensors using correlation spectroscopy compatible with fibre-optic operation, 9
- Fiber-optic pH sensor
 - for *in situ* applications, 467
- Fiber-optic probes
 - luminescence-based, 57
- Fiber-optic proximity sensors
 - U-tube vibration monitoring with, for liquid densitometry, 511
- Fiber-optic remote detection
 - of pesticides and related inhibitors and related inhibitors of enzyme acetylcholine esterase, 87
- Fiber-optic sensing
 - biological applications of; multiple uses of fiber-optic fluorimeter, 395
- Fiber-optic sensors
 - enzyme sensor for determination of adenosine diphosphate using internal analyte recycling, 531
 - lifetime-based enzyme biosensor, 525
- Fiber-optic spectrochemical emissions sensor
 - FOSES; detector for volatile chlorinated compounds, 447
- Fish pigment cells
 - optical biosensors based on, 543
- Fish-scale photometry
 - and *in vitro* cytotoxicity, 323
- Food products
 - non-destructive testing of quality of naturally white, 503
- Gases
 - discrimination and determination of, utilizing adsorption luminescence, 441
- Gas sensor(s)
 - integrated acousto-optical; proposal and first experimental verification, 227
 - integrated optical, using organically modified silicates as sensitive films, 361
 - sensitivity improvement for evanescent-wave, 521
 - using correlation spectroscopy compatible with fibre-optic operation, 9
- Gaussian beam
 - determination of evanescent-field absorption using optics elements by means of totally reflected, 515
- Glucose
 - fluorescence lifetime-based sensing of pH, Ca^{2+} , K^{+} and glucose, 133
- Hydrocarbons
 - integrated optical sensors for halogenated and non-halogenated, 207
- Immunoassays
 - evanescent fluorescence, performed with disposable ion-exchanged patterned waveguide, 245
- Immunosensor(s)
 - fiber-optic Atrazine, 301
 - fiber-optic evanescent-wave, for large molecules, 239
 - reversible fiber-optic, measurements, 73
 - scattering in planar surface waveguide, 537
- Infrared optical sensing
 - some applications of, 185
- Interferometry
 - chemical and biochemical sensors based on, at thin (multi-)layers, 21
- Integrated acousto-optical gas sensor
 - proposal and first experimental verification, 227
- Integrated optical difference interferometer
 - as refractometer and chemical sensor, 177
- Integrated optical gas sensors
 - using organically modified silicates as sensitive films, 361
- Integrated optical sensors
 - for halogenated and non-halogenated hydrocarbons, 207
- Integrated-optic ammonia sensor, 221
- Ion-exchanged patterned waveguide
 - evanescent fluorescence immunoassays performed with disposable, 245
- Kinetics
 - of micromirror chemical sensor, 161
- Langmuir-Blodgett films
 - new way of biosensing using fluorescence energy transfer and, 103
- Laser photoacoustic sensor
 - for analyte detection in aqueous systems, 213
- Liquid densitometry
 - U-tube vibration monitoring with fiber-optic proximity sensors for, 511
- Luminescence
 - based fibre-optic probes, 57

- based sensors; microheterogeneous and temperature effects, 35
- decay-time-based optical sensors; principles and problems, 97
- discrimination and determination of gases utilizing adsorption, 441
- pressure sensors for aerospace research, 201
- Luminescent porphyrins
 - as probes for optical (bio)sensors, 293
- Metallo-organic compound
 - new kind of oxygen-sensitive transducer based on immobilized, 347
- Microheterogeneous effects
 - luminescence-based sensors; and temperature effects, 35
- Micromirror chemical sensor
 - kinetic of, 161
- Musts
 - determination of probable alcohol yield in, by means of SPR optical sensor, 455
- Neutral carriers
 - optical sensors based on, 1
- Nitrogen oxides
 - luminescent porphyrin thin films for NOX sensing, 195
- Non-destructive testing
 - of quality of naturally white food products, 503
- Non-linear optics
 - chemical sensors based on, 129
- Optical biosensors
 - based on fish pigment cells, 543
 - luminescent porphyrins as probes for, 293
- Optical fibers
 - covalent immobilization of amphiphilic monolayers containing urease onto, for fluorimetric detection of urea, 109
- Optical-fiber sensor
 - detection of chemical vapours with specifically coated, 375
 - by silylation techniques, 353
- Optical pH measurement system
 - experimental results on, for bioreactors, 425
- Optical pH sensing
 - theory and practice in, 281
- Optical pH sensors
 - using fluorescence decay time, 421
- Optical response
 - theoretical evaluation of, to cations and cationic surfactant for optrode using hexadecyl-acridine orange attached on plasticized poly(vinyl chloride) membrane, 341
- Optical sensing
 - some applications of IR, 185
 - comparative study of two different approaches for active, of K with chromoionophore, 413
- Optical sensor(s)
 - based on fluorescence anisotropy, 499
 - based on neutral carriers, 1
 - chemical *in vivo* monitoring by, in medicine, 253
 - determination of probable alcohol yield in musts by means of SPR, 455
 - development and evaluation of, for detection of bacteria, 315
 - integrated, for halogenated and non-halogenated hydrocarbons, 207
 - luminescence decay-time-based; principles and problems, 97
 - organic dyes for, 331
- Optics elements
 - determination of evanescent-field absorption using, by means of totally reflected Gaussian beam, 515
- Optode(s)
 - application of, in FIA-based fermentation process control using software package FIACRE, 407
 - in clinical chemistry; potential and limitations, 263
- Optrode
 - theoretical evaluation of optical response to cations and cationic surfactant for, using hexadecyl-acridine orange attached on plasticized poly(vinyl chloride) membrane, 341
- Organic dyes
 - for optical sensors, 331
- Organically modified silicates
 - integrated optical gas sensors using, as sensitive films, 361
- Output grating coupler
 - integrated optical, as refractometer and (bio-)chemical sensor, 461
- Oxygen-sensitive transducer
 - new kind of, based on immobilized metallo-organic compound, 347
- Pesticides
 - fiber-optic remote detection of, and related inhibitors of enzyme acetylcholine esterase, 87
- pH measurement
 - experimental results on optical, system for bioreactors, 425
- Photoacoustic sensor
 - laser, for analyte detection in aqueous systems, 213
- Photometry
 - fish-scale, and *in vitro* cytotoxicity, 323
- pH sensing
 - fluorescence lifetime-based sensing of pH, Ca^{2+} , K^{+} and glucose, 133
 - theory and practice in optical, 281
- pH sensor(s)
 - fiber-optic, for *in situ* applications, 467
 - optical, using fluorescence decay time, 421
- Plasmon excitation
 - model of chemo-optical sensor based on, in thin Ag films, 481
- Plastic evanescent-wave sensor
 - feasibility study of, 307
- Polysiloxanes
 - chemical sensors based upon; comparison between optical, quartz microbalance, calorimetric, and capacitance sensors, 383
- Poly(vinyl chloride) membrane
 - theoretical evaluation of optical response to cations and cationic surfactant for optrode using hexadecyl-acridine orange attached on plasticized, 341
- Porphyrin(s)
 - luminescent, as probes for optical bio(sensors), 293
 - luminescent, thin films for NOX sensing, 195
- Potassium
 - comparative study of two different approaches for active optical sensing of K with chromoionophore, 413
 - fluorescence lifetime-based sensing of pH, Ca^{2+} , K^{+} and glucose, 133
- Pressure sensors
 - set of luminescence, for aerospace research, 201
- Proteins
 - reagentless fluorescence sensors based upon specific binding, 547

Raman laser fiber optics

RLFO method and its applications, 147

Refractometer

integrated optical difference interferometer as, and chemical sensor, 177

integrated optical output grating coupler as, and (bio)-chemical sensor, 461

Remote detection

fiber-optic, of pesticides and related inhibitors of enzyme acetylcholine esterase, 87

Sensitivity improvement

for evanescent-wave gas sensors, 521

Silver

applications of Ag island films for preparation of fluorescently based chemical sensors, 487

model of chemo-optical sensor based on plasmon excitation in thin Ag films, 481

Silylation techniques

optical-fibre sensors by, 353

Sol-gel

enhanced evanescent wave sensors based on sol-gel-derived porous glass coatings, 29

Surface plasmon resonance

determination of probable alcohol yield in musts by means of SPR optical sensor, 455

principles of biosensing with extended coupling matrix and, 63

Temperature effects

luminescence-based sensors; microheterogeneous and, 35

Urea

covalent immobilization of amphiphilic monolayers containing urease onto optical fibers for fluorimetric detection of urea, 109

U-tube vibration monitoring

with fiber-optic proximity sensors for liquid densitometry, 511

Waveguide immunosensors

scattering in planar surface, 537

Waveguide sensors

gradient effective index, 167

